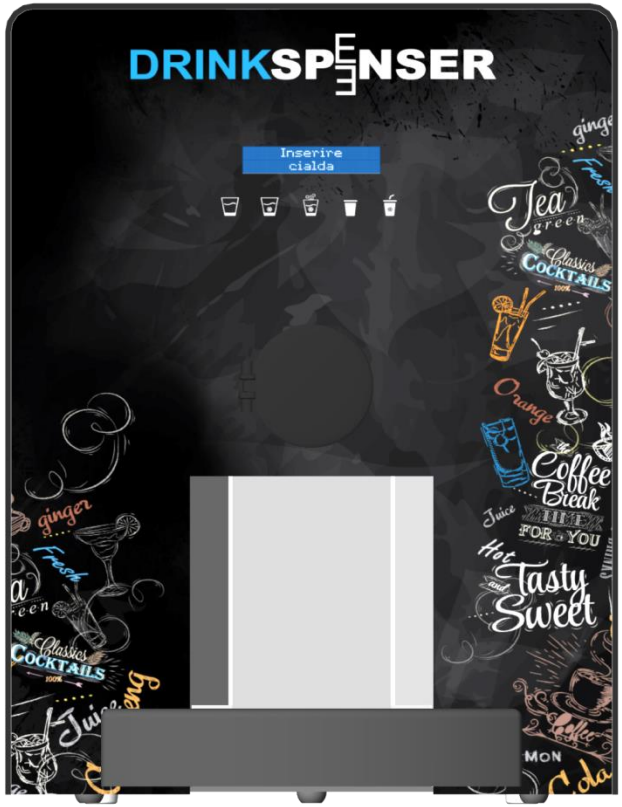
DRINKSPENSER®

# INSTALLATION, USE AND MAINTENANCE MANUAL

*DS Top Model (Rev. 1406)*



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# INTRODUCTION

Thank you for having chosen DRINKSPENSER® beverage dispenser. We remind you that the right dispensing of beverages is exclusively guaranteed with specifically developed capsules, produced by Ingegni.

# CHAPTER 1 – FOREWORD

## 1.1 General Information

The machine complies with European Community directives and with the technical standards, as attested by the Declaration of Conformity, issued by the producer and attached to this manual.
This publication (called "manual" below) contains all the information for the device use and maintenance quoted in the Declaration of Conformity.
This device (generically called "machine" or "Drinkspenser®" below) is produced by Ingegni srl.
The subjects of this publication (generically defined as "users") are those who will use the machine. In particular, they can be classified as follows:

- Expert workers who are directly interested in the transport, storage, installation, use and ordinary maintenance of the machine, from the moment of its launch until its disposal.
- Direct users.

Approximately the machine is intended to be used in the following or similar situations:

- in staff refreshment areas of shops, offices and professional places.
- in food service areas of hotels, motels, bed & breakfast and residences.
- in refreshment areas of gyms, schools, spa and resorts.
- in cafés or in any area in which drinks are sold to people.

The original text of this publication is written in Italian, and it is the only text reliable for the solution of possible misunderstandings of translations written in other languages.
This document shall be considered integral part of the machine; therefore, it must be kept for possible explanation until the final disposal.

## 1.2 Manual aim

In this manual, we would like to familiarize you with the use, safety and maintenance (both ordinary and extraordinary) of the machine.
Possible setting and maintenance operations can be exclusively made by the qualified Ingegni technicians or by a technical staff trained by him. They have to respect the technical features and the ones of the project and they have to issue a declaration which describes the operations performed.

The use and the configuration of the machine stated by the producer shall be the only ones allowed; please, do not try to use the machine for different purposes.
The producer with a written document, in the case of different use approval, should previously approve any other use or configuration; the document shall be attached to the following manual.
For what concerns the installation and maintenance, the qualified expert should comply with the law which is in force in the country in which the machine has been placed (per l'Italia il DM n.174 del 6 aprile 2004 relativo all'idoneità ei materiali e il DM n.37 del 22 gennaio 2008 relativo all'installazione degli impianti all'interno egli edifici).

In order to achieve the aim of this manual, the users should know the laws that are quoted and they should consult them.

## 1.3 Where and how keep the manual safe

This manual (and possible attachments) should be kept in a safe and dry place and it should always be available for people who need to consult it.
We suggest keeping a copy of the manual in your archive. When it is necessary to ask the producer or the qualified staff for information, you should refer to the plate of the machine. The manual should be kept for the whole life of the machine and if necessary (in case of damages that compromise the consultation), the user should ask the producer for a new copy.

***Ingegni srl reserves the proprietary rights of this publication and we are wary of the both partial and complete imitation of this text without prior written authorization.***

## 1.4 Manual update

The manual mirrors the state of the art of the machine when it has been launched and it is integral part of the device. The publication complies with the directives in force on that date; the manual shall not be considered inadequate in case of directive updates or changes in the machine.
If need be the producer shall send the users further additions of the manual which shall be kept with the manual itself and become integral part of it.
In order to check which version of the manual is the latest one, you shall visit our website **www.drinkspenser.com** where you will find the link to download the latest publication.

## 1.5 Producer

The Drinkspenser® is built to dispense water, still or soft drinks and hot beverages through capsules.
The details necessary to identify the machine are written on the inscription at the back of the device (as explained in the manual).

On the plate the order of the details is:

- Model (code);
- Serial number (s/n);
- Mains voltage (V), frequency (Hz), the machine absorption (A) and Climate Class;
- Cooling system and its quantity in grams;
- Maximum water channel pressure to which the Drinkspenser can be connected (kPa);
- Maximum $CO_2$ pressure to which the Drinkspenser can be connected;
- the producer and the country of production;
- The CE mark.

Ingegni srl declines warranty liability in case of removal or alteration of the plate.

## 1.6 Producer Responsibility and Warranty

In order to benefit from the warranty given by the producer, you should observe carefully the safety precaution written in the manual, in particular:

- the installation shall be made by a qualified technician according to the instructions described in this manual;
- for extraordinary maintenance the qualified technician should use only Ingegni spare parts. Ingegni declines responsibility when not produced by Ingegni spare parts are used. This is made to guarantee the user that Drinkspenser® shall keep his best features and the quality of the products unchanged;
- always operate in the machine limits of use ;
- always make a careful maintenance with a qualified technician;
- put the device in a hygenically apt place.

The producer declines liability, direct or indirect, which is due to:

- installation made by not qualified staff;
- extraordinary maintenace made by not qulified staff;
- use of the machine which is not in conformity with the instructions contained in this manual;
- use of spare parts which are not produced or supplied by Ingegni;
- use made by staff that hasn't read or completely understood the manual;
- alterations made on the machine, on the software, on the operation logic, when they are not authorized by the producer with a written document;
- not authorized reparations;
- extraordinary events.

**The transfer of the machine to third party includes the transfer of this manual; the lack of the manual transfer revokes warranty rights of the buyers. If the machine is transferred to third party in a different language country from the one of the manual, it shall be the first user's responsibility to give a reliable translation of the following manual, in the language of the country in which the machine will be placed.**

## 1.7 Warranty Terms

The warranty lasts 12 (twelve) months from the invoice date. The warranty covers every production fault.
Ingegni srl shall use efforts to replace or repair every defective part for free in its own headqaurters, carriage free.
When it is necesssary to call a fixing technician or producer (or person authorized by them) at the user's headquarters, the costs are at the expense of the user.
The free supply of warranty parts shall always be approved by the producer (or authorized person), after having seen the defective part.

**The warranty policy does not cover components damages caused by normal wear and tear (Filter and $CO_2$ tanks).**

The warranty extension shall not be included after a technical intervention or machine reparation.
Warranty does not cover damages due to:

- transport;
- negligence;
- use of the machine which is not in conformity with the instructions contained in this manual;
- wrong electrical connections;
- natural causes.

The company shall not be liable for:

- installation, extraoirdinary maintenance or reparation performed by not qualified or not authorized technicians
- alterations not authorized by Ingegni;
- use of spare parts which are not produced or supplied by Ingegni;
- removal or alteration of the identifying plate;
- when instructions are not followed for installation and maintenance.

## 1.8 Technical assistance service

If you need technical assistance, please contact the distributors and/or dealer, always quoting the model, (i) the serial number (s/n) written on the plate of the machine.

## 1.9 Certificate CE

The declaration of conformiti CE has been attached to the following manual.

# CHAPTER 2 – SAFETY

## 2.1 General notes

The project and production of the machine comply with the Machinery Directive 2006/42/CE, considering the normal use and the predictable one. Please, use the machine in conformity with the instructions contained in this manual and not for different aims from the one of the producer: distribution of hot, cold, still, and soft drinks with original Ingegni capsules.

## 2.2 Safety Warnings

- Read this manual carefully before using the Drinkspenser®, in order to use it safely.
- This machine is not intended to be used by people (children included) with physical or sense problems or without experience and knowledge. An expert who shall be responsible for their safety should control them. It is necessary to keep children safe so that they will not play with the device.
- The reparation shall be performed by a qualified technician or by a Ingegni approved centre.
- Place the machine in order to provide an adequate ventilation for its cooling, that means a distance of 15 cm from walls or object per each side. Make sure the machine is placed on a flat surface.
- Do not manipulate or sabotage the internal parts of the machine; in case of bad working, contact directly the reference distributor or supplier.
- Keep this user manual in order to sell it with the machine, if it changes the owner.
- Do not place objects on the machine, when they are not produced for that aim.
- If you think the machine is damaged, please contact directly the reference distributor or supplier.
- In case of machine breakdown, malfunction or extraordinary operations, pull out the plug and contact directly the reference distributor or supplier.
- Possible operations, which are not written in this manual, shall be considered qualified interventions and therefore they can be performed by a qualified technician. Ingegni cannot be liable for operations performed by not qualified or not authorized technicians.
- This machine cannot be placed in the rain, in the snow or outside.
- For the electrical safety of this machine, it is necessary to have an electrical ground circuit. The producer shall not be liable for damages due to the lack of a ground circuit.
- If you have any doubts, please, contact a qualified electrician who will check your circuit: the electricity rate of the circuit shall be adequate to the maximal power of the machine (chapter 3- paragraph 3.2) It shall also be controlled that the circuit cables are adequate for the power that the device absorbs.
- Completly unroll the electric cable in order to avoid dangerous overheatings. Do not pull the cable to pull out the plug. If the cable is damaged, it shall be replaced by the producer or by the assistance centre or by a qualified technician in order to avoid risks.
- Pull always out the electricity cable before filling the tank with water or in every maintenance performance.

**Never touch the machine with wet feet or hands.**
**Never touch the hot parts.**
**Never put the machine into water.**
**Never use extension cables in bathroom or rooms with showers.**

# CHAPTER 3 – TECHNICAL FEATURES

## 3.1 DS Top Model

The Drinkspenser® - DS Top model is a device produced to dispense water, still or sparkling and hot drinks with capsules.

## 3.2 Technical Features

The machine is made up of:

1. Tank lid with lock
2. Display
3. Hot water dispensing button
4. Cold water dispensing button
5. Sparkling water dispensing button
6. Hot beverages dispensing button
7. Cold beverages (still or sparkling) dispensing button
8. Service door and capsules compartment
9. Used capsules container
10. Glass or cup compartment

Technical Details are:

- Height: 420 mm
- Width: 320 mm
- Depth: 550 mm
- Net weight: almost 25Kg (with water almost 35kg)
- Power supply: AC 220 - 240V 50Hz
- Installed power: 6.50A
- Empty capsules box capacity: 3,5lt
- Limit control: 1 x 150°C

## 3.3 Emission of air noise

The level of noise when the machine works continually is less than 70dB(A).

# CHAPTER 4 – UNPACKING AND INSTALLATION

## 4.1 Machine control and unpacking

The packaging shall be complete at the delivery

- It shall not be damaged or broken;
- It shall not have marks that show exposure to warmth, water or chill
- It shall not have sabotage marks.

The machine has been carefully packed to prevent damage of it and of its accessories.
Before delivery there are always strict controls, anyway it is better to verify if all the items are in the package and if they are in good conditions.

The machine is delivered in a special box, which is made up of:

- 1 machine
- 1 CO2 kit (step down transformer + pipe 4/6 mm)
- 1 electricity cable
- 1 user's manual

The components of the packaging (Styrofoam box and plastic bags) shall be kept out of the reach of children, since they can be very dangerous.

Do not spread the packaging in the environment

**WARNING: keep the packaging materials for possible future deliveries, if the machine needs to be fixed.**

## 4.2 Installation

### 4.2.1 Environmental features

The performing environment shall have the following features:

- Temperature: +5 / +32 °C (41 / 89,6°F)
- Maximum level of humidity: 80%

Do not use the machine outdoor, do not expose to atmopheric conditions or in places with humidity, smoke or dust with fire or explosion danger. Anyway, wherever you place it, we suggest the use of deflagration arresters where it is required.

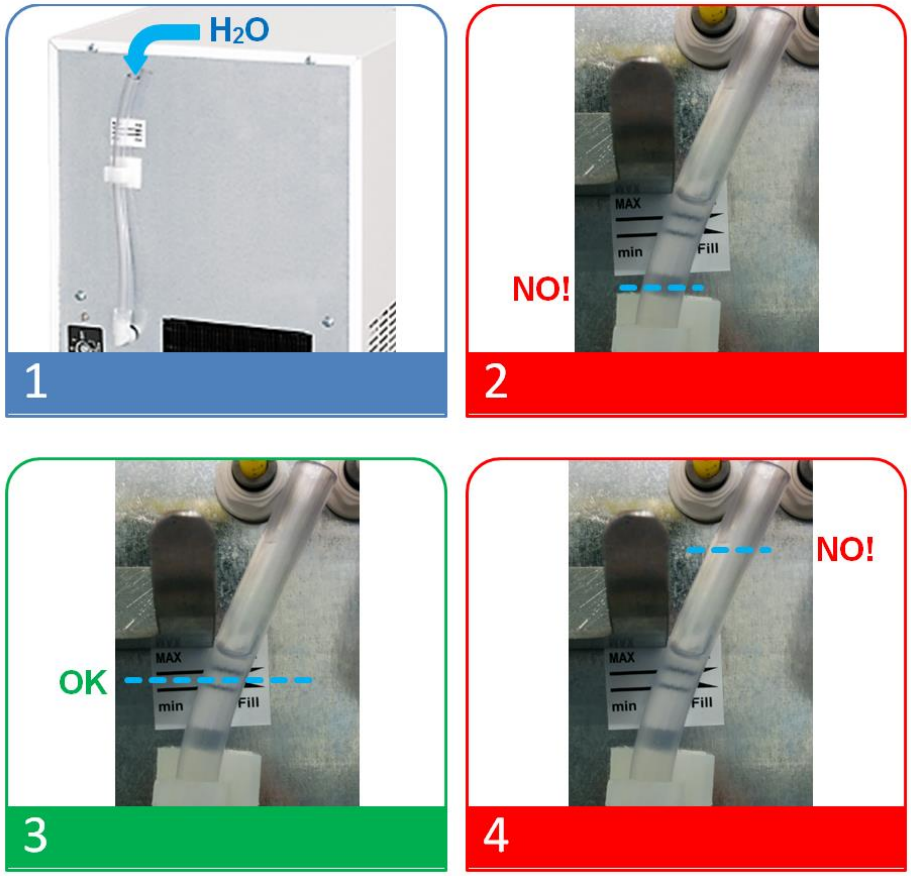
### 4.2.2 Placement

Before installation, read carefully chapter 2 about safety.
Take the machine out of the packaging and place it on a flat surface, apt to bear its weight, water included (see chapter 3 - paragraph 3.2). Anyway the placement of the machine shall provide a proper ventilation.
In particular, the back and top sides shall have a free space of at least 15 com for the ventilation. Moreover, the machine shall not be placed near warmth sources both direct and indirect (ovens, radiators, stoves and similar devices).

### 4.2.3 Ice bank loading

At the back of the Drinkspenser® a transparent pipe is placed, its task is to fill the ice bank.
A proper tag shows the correct water level (maximum and minimum) that can be put into the bank.

Through the pipe pour almost 2 liters of water into the bank and check constantly the water level with the transparent pipe..
Keep on pouring water until you reach the right level, in the pipe you shouldn't see air bubbles.




If you have poured too much water and it goes beyond the maximum level, remove the open extremity from its anchoring and pull it downward.
After having removed the necessary quantity of water bring the pipe back to its previous placement and fasten it to the machine.

**Warning! Remove the pipe carefully in order to prevent it from disconnecting.**

### 4.2.4 How to refill the tank

Open the lock of the lid **[1]** and lift it, refill the tank with drinkable fresh water .

Lower the lid **[1]** and make sure you close the lock.

Near the machine the electricity plug (conform with the features of chapter 3-paragraph 3.2) shall be available and it shall be placed is that the electric cable doesn't cross it. The place shall be without vibrations.
If during the transport or installation the machine has not been placed vertically, it shall be necessary to wait at least 24 hours before switching it on, after having placed it vertically.

### 4.2.5 Gas cylinder connection

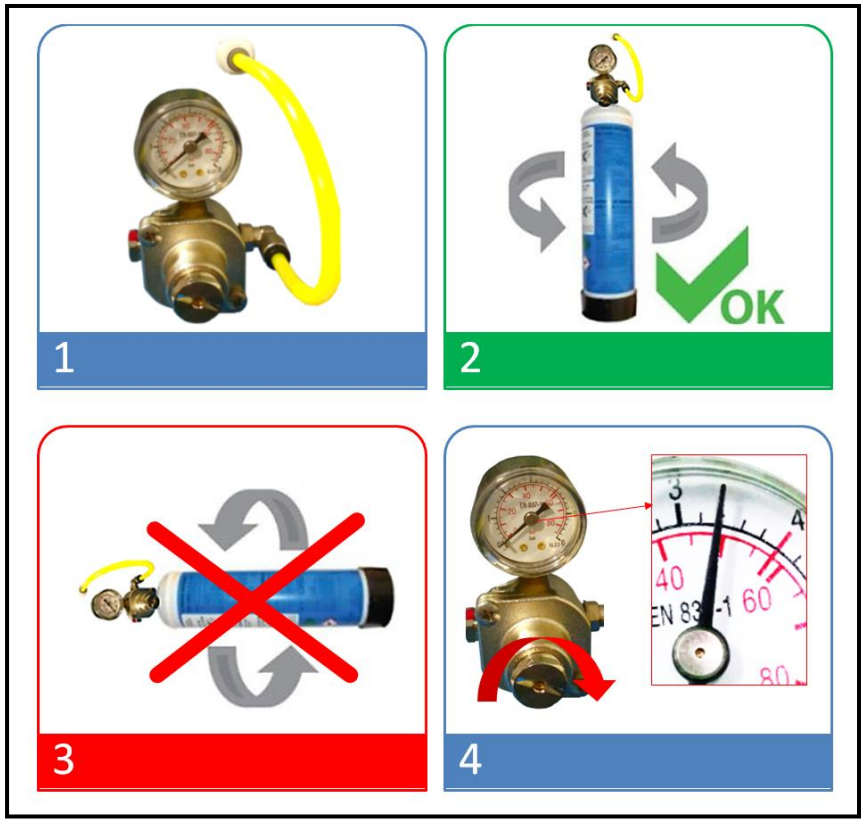
The machine is often delivered with an external $CO_2$ disposable cylinder and the pressure regulator both present in the connection kit.
The gas cylinder pressure regulator is **not** intentionally fastened, in order to prevent the emptying during the transport.

Connect the pressure regulator to the machine: the pipe shall be inserted from one side in the proper quick junction at the back of the machine, while the other side of the pipe shall be inserted in the quick junction of the gas cylinder pressure regulator.

Keep strongly with one hand the pressure regulator and with the other hand fasten the $CO_2$ cylinder completely, keeping it vertically and turning it clockwise.

A possible gas aeration during the performance (or substitution) can be considered normal. It cannot be considered normal a continuous gas aeration after the start of the cylinder.

If the gas aeration continues, fasten the cylinder in a stronger way to the regulator or contact a qualified technician.
Do not lay the cylinder down during the starting of the regulator.




**Place the gas cylinder vertically**.

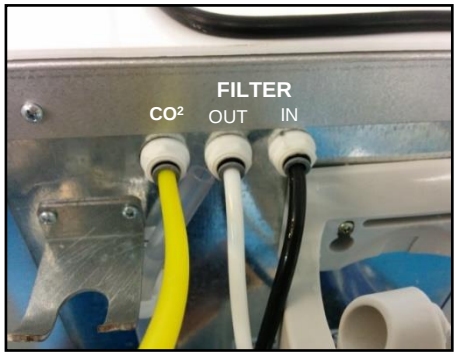
Set the pressure of the regulator by tightening the front fastener.

Set the pressure regulator to **3,5 bar**

**Warning! Other calibration of the pressure regulator $CO_2$ can damage the quality of the beverages and the performance of the machine.**

**Warning! Do not set a higher value than the one suggested (3,5 bar) in the $CO_2$ pressure regulator.**

### 4.2.6 Filter Connection (external filter version)



Insert the black pipe of the header between “IN – FILTER” and the first connection on the right, the white exit pipe between “OUT – FILTER” and the junction at the center.

Insert and fasten the cartridge in the filter header, make sure there are not lock mechanisms.

### 4.2.7 Power connection

The machine complies with safety European directives; therefore it has the mark CE.
Anyway, you should verify that the power supply network features are in conformity with the ones of the machine, written in chapter 3- paragraph 3.2.

Once you have done the necessary controls, you can insert the female plug with a trapezoid shape of the power cable in the proper part, which is placed at the back of the machine and another plug in the electrical ground circuit.

Never use multiple plugs or extension cables. If the power supply cable is damaged you should replace it with a new one with the same features. Before inserting the electric plug in the socket, open the CO2 gas cylinder.

When you have completed the first installation step, you should make the machine get to its regime (almost 15 minutes, according to environmental conditions). Make sure to load the water tank again, if the first starting of the car has emptied the tank.

# CHAPTER 5 – USE OF DRINKSPENSER

## 5.1 How to prepare a drink with a capsule

If the inscription "**INSERT POD"** appears on the display **[2],** the machine is ready to drinks or water.

After having opened the service door **[8],** insert the capsule in the capsule compartment **[8]**.

If the capsule is correctly inserted the machine will automatically recognize the kind of capsule inserted, showing the inscription "**HOT OR COLD?**". If you insert a capsule which belongs to this kind (tea for example) the inscription "**STILL BEVERAGE"** will appear; if you insert a capsule belonging to this kind (cola for example) the inscription **"SOFT DRINK"** will appear.

Place in the glass/cup holder **[10]**, the glass/cup that shall hold the drink.

Push the button dispense **[7]** in case of cold beverage when the drink is cold (still or sparkling) or choose between button **[6]** and **[7]** (hot or cold beverage) if the inserted capsule allows it.

On the display **[2]** you shall see the inscription "**DISPENSING BEVERAGE"**

Wait for the dispensing of the drink, while the glass/cup holder **[10]** shall be brightened by a white light.

At the end of the spilling on the display the inscription "**REMOVE BEVERAGE"** will appear and the light inside the glass holder **[10]** will turn from white to blue.

Now it is possible to take the drink just spilled.

## 5.2 Water dispensing (hot, cold or sparkling)

If the inscription "**INSERT POD"** appears on the display, the machine is ready to dispense drinks or water.

Place in the glass holder **[10]**, the glass or cup, which shall contain the water spilled.

Push and keep pushing the hot water dispensing button **[3]**, the cold still water dispensing button **[4]** or cold sparkling water dispensing button **[5]**.

The inscription **"DISPENSING BEVERAGE"** shall appear on the display and the glass/cup holder **[10]** shall have a white light.

Keep pushing the dispensing button until the quantity of water desired will be spilled.

At the end of the water dispensing, the inscription **"INSERT POD"** will appear on the display **[2]**, and the light in the glass/cup holder **[10]** will turn from white to blue.

Now it is possible to take the glass or cup with the spilled water.

## 5.3 Water tank and used capsules container

The device tells you when there is a lack of water in the tank with two red lights and the inscription: "**EMPTY TANK"** on the display **[2]**.

In order to refill the water tank refer to paragraph 4.2.4.

The device tells you when the used capsules container is full **[9]** with the inscription "**REMOVE USED PODS"** on the display **[2]**.

Once you have removed the capsules, follow the instructions on the display in order to reset the number of the capsules in the proper container.

# CHAPTER 6 – MAINTENANCE

## 6.1 Foreword

The buyer/user shall perform only the operations described in this manual.

The producer shall not be liable for responsibilities due to operations that does not comply with what is specifically described in this manual. In case of any operation performed like that, warranty shall be cancelled.

Only the technical assistance centre can perform the necessary operations that are not described in the manual.

**Warning:** every cleaning or maintenance operation shall be performed **only** after having removed the power cable, taking it out from the socket and leaving it chilling for more than 20 minutes.

## 6.2 Hazard Analysis and Critical Control Points (HACCP)

In the following chart, the ordinary maintenance performances are described. The periods have been decided according to normal conditions of use. In case of worse conditions, the reduction of the periods can be necessary.

**Please note:** if you use the machine in public environments (cafés, restaurants, canteens, schools etc...), this manual shall become integral part of the maintenance process (HACCP) that the user shall keep updated, according to laws that his activity involves.

| HAZARD ANALYSIS AND CRITICAL CONTROL POINTS (HACCP) | | | | | | |
|---|---|---|---|---|---|---|
| **Components** | **Tipology of performance** | **Period of intervention** | | | | |
| | | **day** | **week** | **Half year** | **year** | **Exhaustion or Necessity** |
| External Shell | cleaning | X | | | | |
| Water Tank | cleaning | X | | | | |
| Water Filter | replacement | | | X | | X |
| CO2 Cylinder | replacement | | | | | X |
| Drinkspenser | replacement | | | X | | X |

### 6.2.1 External Shell

In order to keep the machine in good conditions, even after a long period of use the outside surfaces shall be cleaned periodically. The cleaning shall be performed when the machine is switched off, taking out the power plug from its socket.

Never use dirty or used cloth for cleaning. You can use, for example a sheet of blotting paper and throw it away afterword; the paper shall be dampened with a neutral cleaner or with a gentle disinfectant diluted in water. Do not use solvents, with alcohol or strong cleaners.

Do not touch with hands without disposable gloves the dispensing part.

### 6.2.2 Water Tank

Remove and clean periodically the water tank.

Never use dirty or used cloth for cleaning. You can use, for example a sheet of blotting paper and throw it away afterword, it shall be dampened with a neutral cleaner or with a gentle disinfectant diluted in water. Do not use solvents, with alcohol or strong cleaners.

You can easily remove the tank: open the lock, raise the lid **[1],** grab and pull the tank out through its superior extremity.

The tank can be put in the dishwasher.

### 6.2.3 Filter replacement

The filter shall be replaced at least every six months in normal conditions of use, it is compulsory to replace the standard water filter cartridge.

Anyway it is useful, to remember the date of every filter change, writing it with an indelible pen on the new filter.
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### 6.2.4 Replacement of the $CO_2$ cylinder

In order to replace $CO_2$ cylinder refer to paragraph 4.2.3.

### 6.2.5 Drinkspenser® Cleaning

Every six months it is necessary to clean the Drinkspenser® in order to avoid bacterial contaminations.

That operation shall be performed exclusively by authorized staff or by the assistance centre.

Even if the machine shall be used for a long period (15 days minimum), it is compulsory to clean the brewer every time you change the water filter.

***Warning: this machine needs a periodical maintenance, in order to guarantee the drinking water requirements and to keep the improvements that the producer decides.***

## CHAPTER 7 – DISPOSAL

### 7.1 General Instruction

The disposal of consumption materials shall be performed according to the law.

**WASTE COLLECTION OF ELCECTICAL/ELECTRONIC MATERIAL.**

Pursuant to and by effect of directive 13 of the Legislative Decree of 25 July 2005, n°151: “Fulfillment of the directives 2002/95/CE, 2002/96/CE and 2003/108/CE, about the reduction of dangerous materials in electric devices and about the waste disposal.” Legislative Decree of 20 November 2008, n.188: “Fulfillment of the directive 2006/66/CE about batteries, storage batteries and waste that revoke directive 91/157/CEE.”

The crossed-out wastebasket symbol on the tag at the back of the machine means that at the end of its useful lifespan, the product must be disposed of separately from ordinary household wastes.
The user is responsible for delivering the appliance to an appropriate electronic/electric material collection facility at the end of its useful lifespan, or give it back to the producer when buying a new device of the same kind.
Appropriate separate collection to permit recycling, treatment and environmentally compatible disposal, helps prevent negative impact on the environment and human health and promotes recycling of the materials making up the product.
We remind you that the user is responsible for waste collection and the illegal collection of the product involves the application of administrative fines according to the law in force. In this case, the seller and producer cannot be liable for any responsibility.

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